

COATING COMPOSITION AND ITS PREPARATION

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Abstract of JP61026637

PURPOSE: To obtain the titled composition having long pot-life and giving a coating film having excellent scratch resistance, chemical resistance, dyeability and weather resistance, by compounding a specific silane compound with colloidal silica, a specific titanium compound and a magnesium compound.

CONSTITUTION: The objective composition can be produced by (1) dissolving (A) 75-25(wt)% one or more hydrolyzed products of silane compound of formula I ($R<1>$ is organic group having epoxy group; $R<2>$ is 1-4C hydrocarbon group; X is 1-6C alkoxy, etc.; a is 1-3; b is 0 or 1; a+b is 1-3) and (B) 75-25% colloidal silica having particle diameter of 1-100nm in an organic solvent, (2) hydrolyzing the product with an acidic aqueous solution (e.g. dilute solution of hydrochloric acid), and (3) adding (C) 1-30% titanium compound of formula III ($R<3>$ is 3-16C alkylene, etc.; $R<4>$ is H, etc.; n is 0-5; c is 2-4) in terms of the compound of formula IV and (D) 0.01-5% magnesium compound to the hydrolyzed product.

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